In the Claims

1. (CANCELLED) A hollow, cylindrical-shaped bottle having an open-ended mouth-forming portion, an intermediate body-forming portion and a closed, hemispherical-shaped base-forming portion.

2. (AMENDED) A hollow, cylindrical-shaped bottle body consisting of: [bottle as defined in claim 1 wherein]

an open-ended mouth-forming portion;

an intermediate body-forming portion; and

a closed, hemispherical-shaped base-forming portion; wherein

said body-forming portion has constant outer and constant inner diameters [for improved heat distribution during shrink sleeve application]; and

said bottom-forming portion has constant wall thickness and includes a small indention at its center.

3. (AMENDED) A bottle as defined in claim 2 wherein

said body-forming, base-forming and mouth forming portions have a minimum wall thickness of 1.5 mm and maximum wall thickness of 4 mm [for increased stress resistance, increased heat resistance and increased oxygen barrier].

4. (AMENDED) A bottle as defined in claim 3 wherein

said mouth-forming portion comprises a polygonal-shaped flange perpendicular to the plane of the body-forming portion and where each isometric outside surface of the flange is substantially straight and used for holding and stabilizing said bottle during processing; and

said polygonal-shaped flange having six straight sides.

5. (NEW) A bottle as defined in claim 3 wherein said polygonal-shaped flange has eight or more even numbered straight sides.

6. (NEW) A system for processing, filling and capping a hollow, cylindrical-shaped bottle at high speeds comprising:

a bottle consisting of:

an open-ended mouth-forming portion;

said mouth-forming portion further comprising a polygonal-shaped flange perpendicular to the plane of the body-forming portion and where each isometric outside surface of the flange is substantially straight and used for holding and stabilizing said bottle during processing;

said polygonal-shaped flange having six straight sides;

an intermediate body-forming portion;

said body-forming portion having a constant outer and constant inner diameters;

a closed, hemispherical-shaped base-forming portion; wherein

said bottle secured in a tray during the processing, filling, and capping in such a manner that it is securely standing upright and stable as it moves along a processing line;

said polygonal-shaped stabilizes the bottle and permits machinery to grasp and hold the bottle in place during filling and capping while in the tray.

7. (NEW) The system for processing, filling and capping a hollow, cylindrical-shaped bottle at high speeds of claim 6 further comprising a jig whose perimeter is partially recessed to substantially matches more than half of the sides of the polygonal-shaped flange and is placed against the flange of the bottle to hold it in place and prevent rotation.

while fixed in the jig, the row of bottles may be capped simultaneously;

said bottles are then placed directly into a shipping carton without being removed from the tray.

8. (NEW) The system for processing, filling and capping a hollow, cylindrical-shaped bottle at high speeds of claim 7 wherein the jig can be fashioned with any number of flange-shaped openings to hold several resistant bottles in a single row to be filled simultaneously.

9. (NEW) The system for processing, filling and capping a hollow, cylindrical-shaped bottle at high speeds of claim 6 wherein the flange has an even number of at least six isometric, substantially straight outer surfaces.

10. (NEW) The system for processing, filling and capping a hollow, cylindrical-shaped bottle at high speeds of claim 6 the flange opening has one-half the number of isometric, substantially straight outer surfaces of a bottle flange, plus one.